

REMARKS

Applicant has amended the Claims 1, 3, 9, 11 and 12 and also amended the drawings. Applicant respectfully submits that the amendments to the claims and the drawings are supported by the application as originally filed and do not contain any new matter. Accordingly, the Office Action will be discussed in terms of the claims and drawings as amended.

The Examiner has objected to the drawings. Applicant submits herewith replacement sheets for 4A and 4C together with replacement sheets for the Figures 5A-5D and respectfully requests that the Examiner withdraw the objection.

The Examiner has rejected the Claims 1 and 2 under 35 U.S.C. 103 as being obvious over Goldenberg in view of Westort, et al. or McCoy, stating that Goldenberg teaches a non-imaging device for increasing a collection efficiency of light received from a light source 2 and subsequently emitting light towards a display for image projection, but does not teach that the light source is a solid state light source; Westort, et al. and McCoy teach the utilization of an LED array in place of an arc lamp as a light source in an image projection system; and it would have been obvious to one of ordinary skill in the art to modify Goldenberg in view of the teachings of Westort, et al. or McCoy.

In reply thereto, Applicant has carefully reviewed Goldenberg, and respectfully submits that Goldenberg teaches a system substantially different from Applicant's invention. In particular, Applicant respectfully submits that Goldenberg teaches the utilization of a single light source and a compound elliptical or compound hyperbolic concentrator. In contrast thereto, Applicant's invention provides at least a quad total internal reflection base compound hyperbolic emitter which is utilized with a light source that comprises at least four solid state sources of light.

Applicant has carefully reviewed McCoy, and respectfully submits that McCoy teaches as its preferred light source a Xenon gas strobe lamp which is utilized to produce white light. It does go on to further suggest the utilization of an incandescent lamp as the source of white light or the combination of red, blue and green LED's to produce white light. Still further, the light source of McCoy is strobed or pulsed so that the light is emitted for less than 10 microseconds, and Applicant respectfully submits that a Xenon gas strobe light is the most capable of doing such. In addition, Applicant respectfully submits that since such a bright light source is used in McCoy, there is really no necessity or requirement or suggestion in McCoy that one would need

or utilize the light source with a highly efficient reflector such as a total internal reflection based compound hyperbolic emitter. As a result, Applicant respectfully submits that there is no suggestion in McCoy to combine it with Goldenberg.

Applicant has carefully reviewed Westort, et al., and respectfully submits that while Westort, et al. may in Figure 18 show the utilization of LED's, Applicant respectfully submits that these LED's are merely white LED's and all for utilization in a particular system comprising the internal lighting for a 360 system. Still further, Applicant respectfully submits that the LED array of Westort, et al. is for utilization with two reflector segments which are quite different in utilization and purpose than a total internal inflection compound hyperbolic emitter. Therefore, Applicant respectfully submits that there is no suggestion in Westort, et al. that it would be utilized in an image system such as Goldenberg, and one of ordinary skill in the art would not look to Westort, et al.

In view of the above, therefore, Applicant respectfully submits that the combination suggested by the Examiner is not only not Applicant's invention, but also not suggested to one of ordinary skill in the art. Therefore, Applicant respectfully submits that the Claims 1 and 2 are not obvious over Goldenberg in view of Westort, et al. or McCoy.

The Examiner has rejected the Claims 9 and 10 under 35 U.S.C. 102 as being anticipated by Agostinelli, et al., stating that Agostinelli, et al. teaches a device for combining a plurality of signals transmitted from an array of LED's 20, in an optical system for image projection wherein the device comprises a structure formed from a plurality of red dichroic filters.

In reply thereto, Applicant has carefully reviewed Agostinelli, et al., and respectfully submits that the dichroic filters therein are utilized to combine light from multiple, collinear sources of identical wavelength into the same field path, which is in fact the same, singular field angle or point, since a point source is preferred in Agostinelli, et al. Still further, Applicant respectfully submits that in Agostinelli, et al., this is a spatial combination of collinear sources of the same wavelength into a single path. The light from the different wavelength sources or channels is then combined, after modulation, in the imaging path of the optical system.

In contrast to Agostinelli, et al., in Applicant's invention the dichroic filters are provided right after the light source and are for the purpose of combining the light from the different colored LED arrays into a single beam which is then provided to the micro-display. As a result,

the dichroic filters are provided before the modulation process occurs, and not after as in Agostinelli, et al.

In view of the above, therefore, Applicant respectfully submits that Claims 9 and 10 are not anticipated by Agostinelli, et al.

The Examiner has rejected the Claims 11 and 12 under 35 U.S.C. 102 as being anticipated by Handschy, et al., stating that Handschy, et al. teaches a device for providing a uniformity of light at a micro-display in an optical system for image projection substantially as claimed.

Applicant has carefully reviewed Handschy, et al., and respectfully submits that in Handschy, et al., the diffuser is provided adjacent or near the source of light. In contrast thereto, in Applicant's invention, the diffuser is provided at a position substantially away from the source of the beam of light, and is in fact provided among the optical elements which are positioned between the source of light and the micro-display. Still further, the diffuser in Applicant's invention is provided adjacent to the last one of the plurality of optical elements in the optical system.

In view of the above, Applicant respectfully submits that Handschy, et al. does not disclose each and every element of Applicant's invention as claimed, and the Claims 11 and 12 are not anticipated thereby.

Applicant further acknowledges the Examiner's statement that Claims 4-8 and 13-22 are allowed and Applicant accepts these allowed claims. In addition, the Examiner has indicated that Claim 3 contains allowable subject matter and could be put in condition for allowance by writing it into independent form. Applicant has rewritten Claim 3 into independent form including all limitations of the base claim and any intervening claims, and respectfully submits that the Claim 3 is also now allowable.

Applicant further respectfully and retroactively requests a two-month extension of time to respond to the Office Action, and enclosed herewith is our check in the amount of \$225.00 for the extension fee. In view of the above, therefore, it is respectfully requested that this amendment be entered, favorably considered, and the case passed to issue.

Please charge any additional costs incurred by or in order to implement this amendment or required by any additional requests of time to KODA & ANDROLIA DEPOSIT ACCOUNT NO. 11-1445.

Respectfully submitted,  
KODA & ANDROLIA

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IN THE DRAWINGS:

Enclosed herewith are two replacement sheets for the Figures 4A, 4C, 5A, 5B, 5C and 5D.